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APPLICANT : SEKISUI CHEM CO LTD;

INVENTOR : KAMIYA MASATAKE;

INT. CL. : C04B 28/26 C04B 7/26 C04B 7/32 C04B 12/04 //(C04B 28/26 , C04B 22:06 , C04B 18:08 , C04B 22:08 , C04B 14:10) C04B11:28

TITLE : CURABLE INORGANIC COMPOSITION

ABSTRACT : PURPOSE: To obtain a curable inorganic composition having high strength and excellent durability such as heat-resistance and weather resistance in a short time by compounding prescribed reactive inorganic powder with an alkali metal silicate and water.

CONSTITUTION: This curable inorganic composition is produced by compounding (A) 100 pts.wt. of reactive inorganic powder obtained by compounding (a) 20-99.5wt.% of one or more kinds of inorganic powder selected from fly ash containing ≥ 80 wt.% of powder having particle diameter of $\leq 20\mu\text{m}$, fly ash baked at 400-1000°C and containing ≥ 80 wt.% of powder having particle diameter of $\leq 20\mu\text{m}$ and inorganic powder produced by applying mechanical energy of 0.1-30KWh/kg to clay with (b) 0.5-80wt.% of one or more kinds of alumina powder selected from alumina cement powder, γ -alumina powder and alumina powder produced by flame-spraying with (B) 1-300 pts.wt. of an alkali metal silicate and (C) 10-1,000 pts.wt. of water.

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(C) WPI / DERWENT

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PA - (SEKI) SEKISUI CHEM IND CO LTD

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XA - C1995-118705

XIC - C04B-007/26 ; C04B-007/32 ; C04B-012/04 ; C04B-028/26 ; C04B-111/28 ; (C04B-014/10 C04B-018/08 C04B-022/06 C04B-022/08 C0)

AB - J07165455 Hardenable inorganic compsn. has 100 pts. wt. of a reactive inorganic powder (having 20-99.5 wt. % of a fly ash inorganic powder, and 0.5-80 wt. % of alumina powder e.g. alumina cement); 1-300 pts.wt. of alkali metal silicate; and 10-1000 pts. wt. of water.

- ADVANTAGE - Enables reduced hardening time, and improved strength.

- (Dwg. 0/0)

C - C04B28/26 C04B14/10 C04B18/08 C04B22/06 C04B22/08

IV - HARDEN INORGANIC COMPOSITION IMPROVE STRENGTH COMPRISE WATER ALKALI METAL SILICATE REACT INORGANIC POWDER COMPOSE FLY ASH INORGANIC

POWDER

ALUMINA POWDER

IKW - HARDEN INORGANIC COMPOSITION IMPROVE STRENGTH COMPRISE WATER ALKALI METAL SILICATE REACT INORGANIC POWDER COMPOSE FLY ASH INORGANIC

POWDER

ALUMINA POWDER

NC - 001

OPD - 1993-10-20

ORD - 1995-06-27

PAW - (SEKI) SEKISUI CHEM IND CO LTD

TI - Hardenable inorganic compsn. having improved strength - comprises water, alkali metal silicate and reactive inorganic powder composed of fly ash inorganic powder and alumina powder.

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